Onshore Grab Sample

Sample: CR-32
Sample Taken By: D. Phelps
Sample Collected On: 1/27/10
Splits? N/A

County: Collier
Latitude: 25° 58' 54.9"
Longitude: 81° 44' 47.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	71.891	grams
Total Fines in Sample	0.677	grams
Total Percent Fines	0.93	%

Dry Sieving Summary

Total Sample Weight	71.198	grams
Total Digested Weight	61.710	grams
Total Carbonate Weight	9.488	grams
Total Silica %	86.67	%
Total Carbonate %	13.33	%
Carbonate/Silica Ratio	0.154	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-32

Total Sample Mass: 71.198 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.604	0.848	0.848
-2.00	-2.125	0.097	0.136	0.985
-1.75	-1.875	0.082	0.115	1.100
-1.50	-1.625	0.146	0.205	1.305
-1.25	-1.375	0.125	0.176	1.480
-1.00	-1.125	0.212	0.298	1.778
-0.75	-0.875	0.314	0.441	2.219
-0.50	-0.625	0.446	0.626	2.846
-0.25	-0.375	0.469	0.659	3.504
0.00	-0.125	0.617	0.867	4.371
0.25	0.125	0.724	1.017	5.388
0.50	0.375	0.793	1.114	6.502
0.75	0.625	0.825	1.159	7.660
1.00	0.875	1.253	1.760	9.420
1.25	1.125	1.058	1.486	10.906
1.50	1.375	1.533	2.153	13.059
1.75	1.625	2.004	2.815	15.874
2.00	1.875	3.105	4.361	20.235
2.25	2.125	4.703	6.606	26.841
2.50	2.375	10.724	15.062	41.903
2.75	2.625	21.279	29.887	71.790
3.00	2.875	15.995	22.466	94.255
3.25	3.125	3.590	5.042	99.298
3.50	3.375	0.368	0.517	99.815
3.75	3.625	0.095	0.133	99.948
4.00	3.875	0.027	0.038	99.986
5.00	4.50	0.010	0.014	100.000

Statistical Results			
Mean:	2.2668	phi	(0.2078 mm)
Standard Dev:	0.9489	phi-units	(0.518 mm)
Skewness:	-2.5023	dimensionless	
Kurtosis:	10.0882	dimensionless	
5th Moment:	-41.2448	dimensionless	
6th Moment:	180.5753	dimensionless	
RARD *	0.4186	dimensionless	
Median	2.4427	phi	(0.1839 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

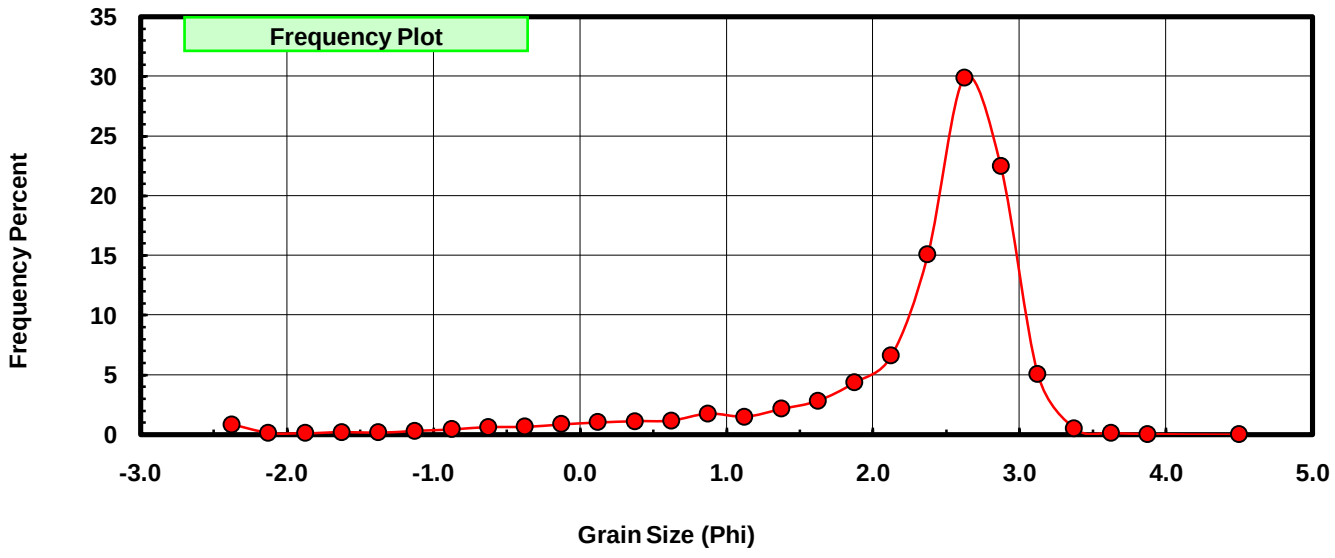
Statistical Explanation

Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

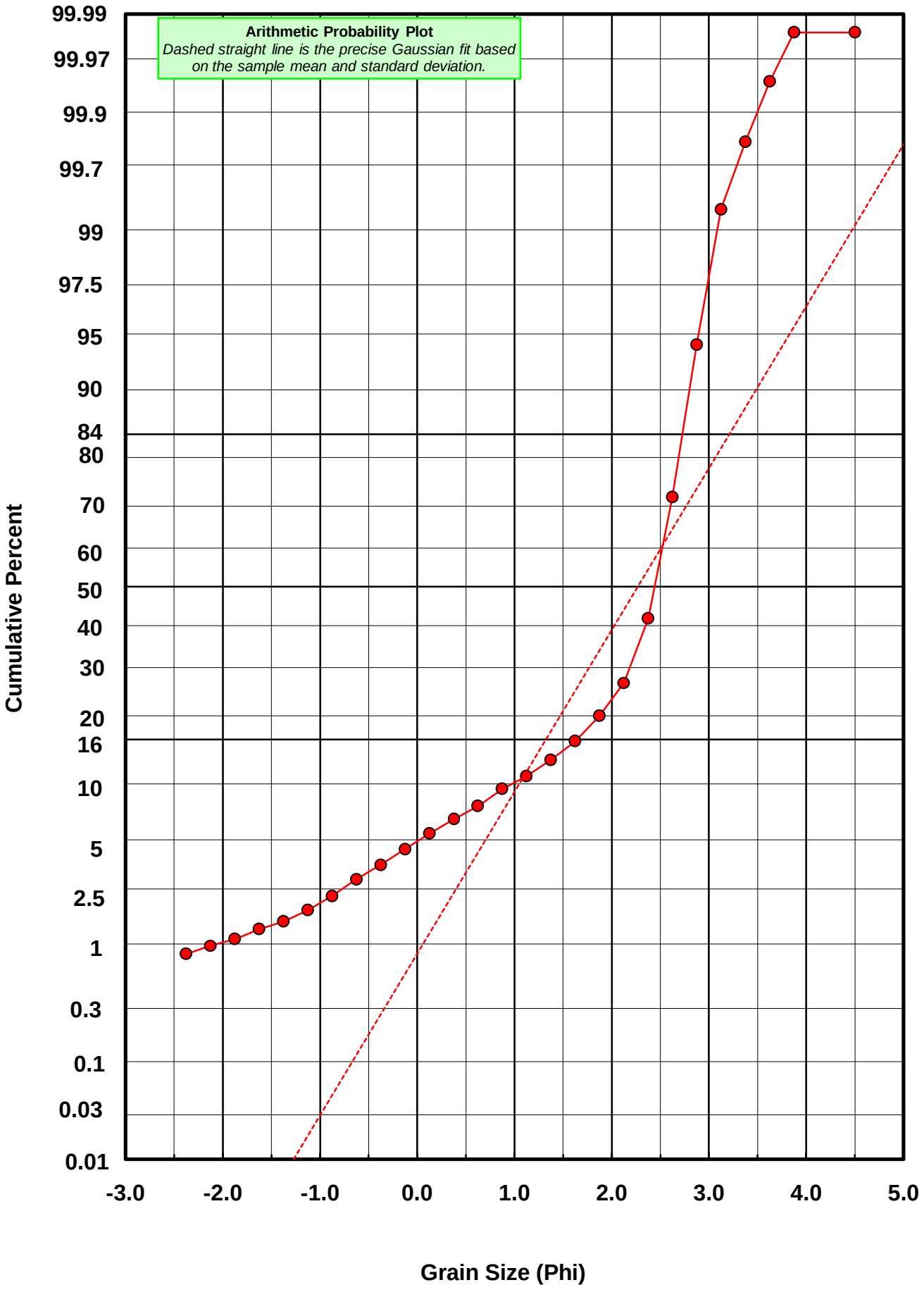
For Further Explanation, See Basillle et al. 2002

Millimeter data calculated by mm = 2^(-phi)

Reciprocal Absolute Relative Dispersion (RARD) Scale	
< 0.5	Excellent homogeneity (e.g., beaches)
0.5 to 1.0	Good homogeneity
1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)



CR-32


Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: CR-32

Total Carbonate Mass: 10.756 grams

% Carbonate: 13.3 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.604	5.615	5.615
-2.00	-2.125	0.097	0.902	6.517
-1.75	-1.875	0.082	0.762	7.280
-1.50	-1.625	0.146	1.357	8.637
-1.25	-1.375	0.125	1.162	9.799
-1.00	-1.125	0.212	1.971	11.770
-0.75	-0.875	0.314	2.919	14.689
-0.50	-0.625	0.446	4.147	18.836
-0.25	-0.375	0.469	4.360	23.196
0.00	-0.125	0.617	5.736	28.933
0.25	0.125	0.724	6.731	35.664
0.50	0.375	0.775	7.205	42.869
0.75	0.625	0.796	7.401	50.270
1.00	0.875	1.081	10.050	60.320
1.25	1.125	0.663	6.164	66.484
1.50	1.375	0.593	5.513	71.997
1.75	1.625	0.492	4.574	76.571
2.00	1.875	0.345	3.208	79.779
2.25	2.125	0.123	1.144	80.922
2.50	2.375	1.431	13.304	94.226
2.75	2.625	0.613	5.699	99.926
3.00	2.875	0.000	0.000	99.926
3.25	3.125	0.000	0.000	99.926
3.50	3.375	0.000	0.000	99.926
3.75	3.625	0.008	0.074	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.6398	phi	(0.6418 mm)
Standard Dev:	1.4245	phi-units	(0.3725 mm)
Skewness:	-0.4371	dimensionless	
Kurtosis:	2.3787	dimensionless	
5th Moment:	-2.6152	dimensionless	
6th Moment:	7.8947	dimensionless	
RARD *	2.2265	dimensionless	
Median	0.6159	phi	(0.6525 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Basillle et al. 2002

Millimeter data calculated by mm = 2^(-phi)

Reciprocal Absolute Relative Dispersion (RARD) Scale	
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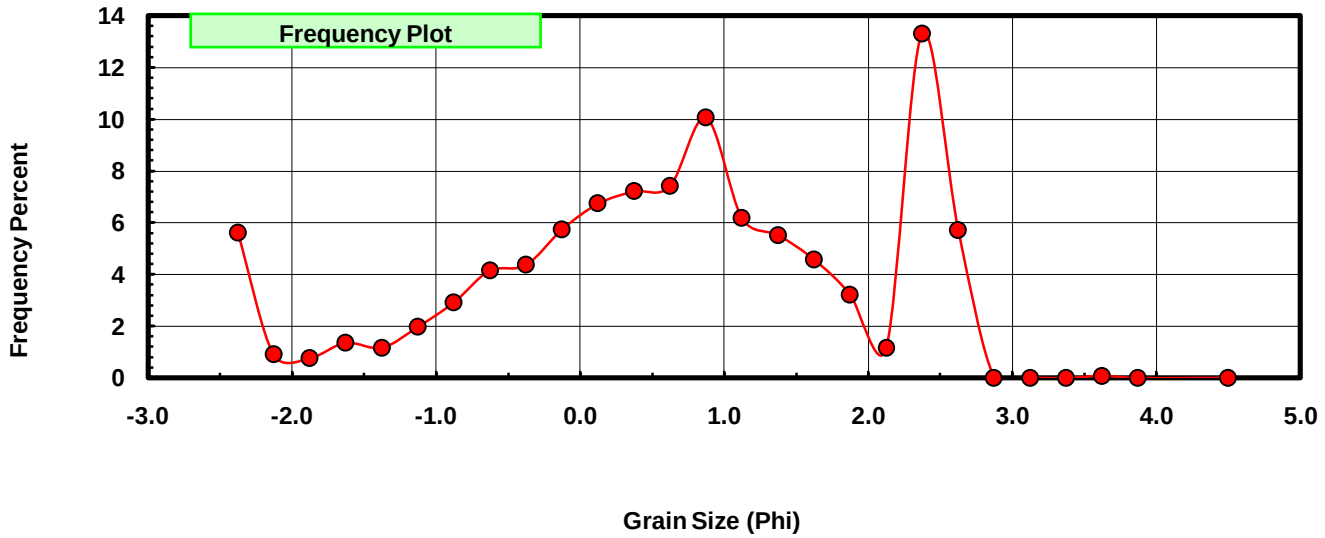

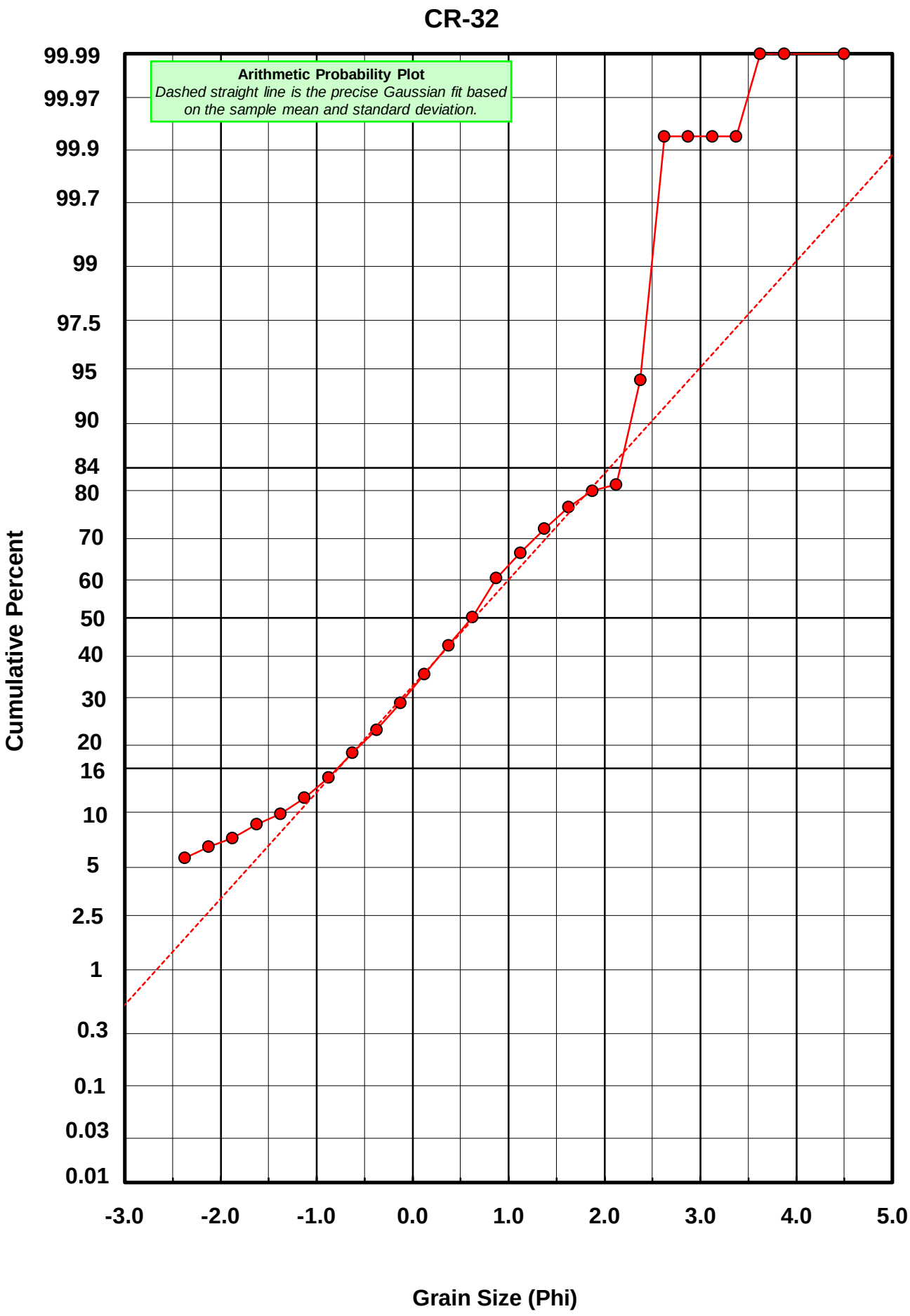
CR-32
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: CR-32

Total Digested Mass: 61.710 grams

% Silica: 86.7 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.018	0.029	0.029
0.75	0.625	0.029	0.047	0.076
1.00	0.875	0.172	0.279	0.355
1.25	1.125	0.395	0.640	0.995
1.50	1.375	0.940	1.523	2.518
1.75	1.625	1.512	2.450	4.968
2.00	1.875	2.760	4.473	9.441
2.25	2.125	4.580	7.422	16.863
2.50	2.375	9.293	15.059	31.922
2.75	2.625	20.666	33.489	65.411
3.00	2.875	16.608	26.913	92.324
3.25	3.125	4.198	6.803	99.127
3.50	3.375	0.410	0.664	99.791
3.75	3.625	0.087	0.141	99.932
4.00	3.875	0.032	0.052	99.984
5.00	4.500	0.010	0.016	100.000

Statistical Results			
Mean:	2.5657	phi	(0.1689 mm)
Standard Dev:	0.4090	phi-units	(0.7532 mm)
Skewness:	-1.1871	dimensionless	
Kurtosis:	5.2409	dimensionless	
5th Moment:	-13.6485	dimensionless	
6th Moment:	57.0700	dimensionless	
RARD *	0.1594	dimensionless	
Median	2.5100	phi	(0.1756 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

Statistical Explanation
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
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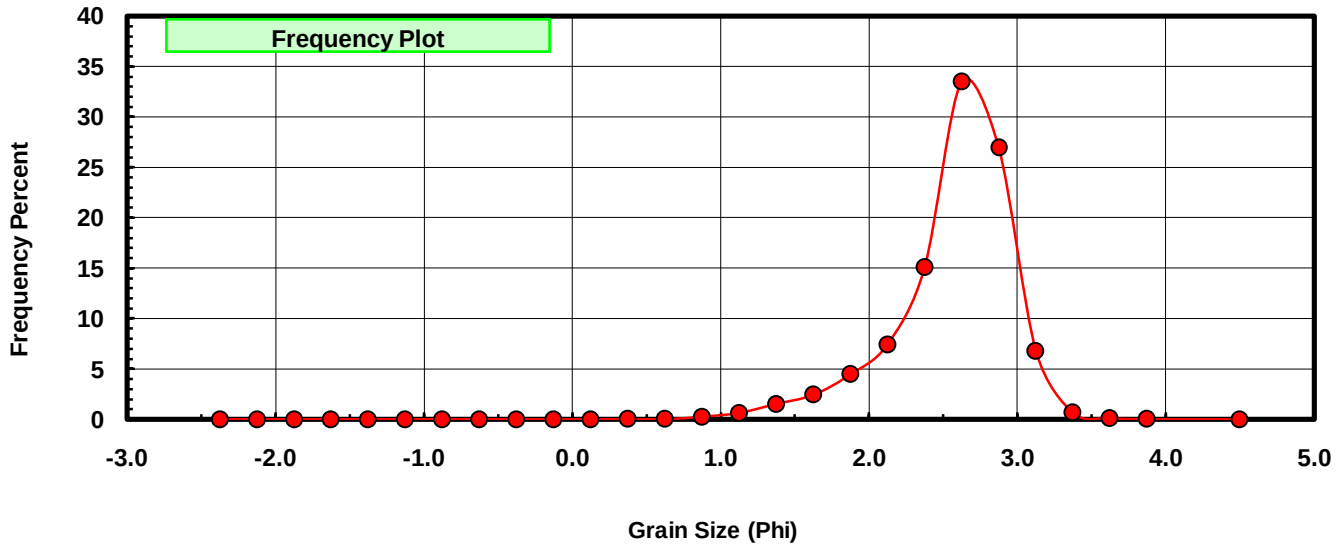

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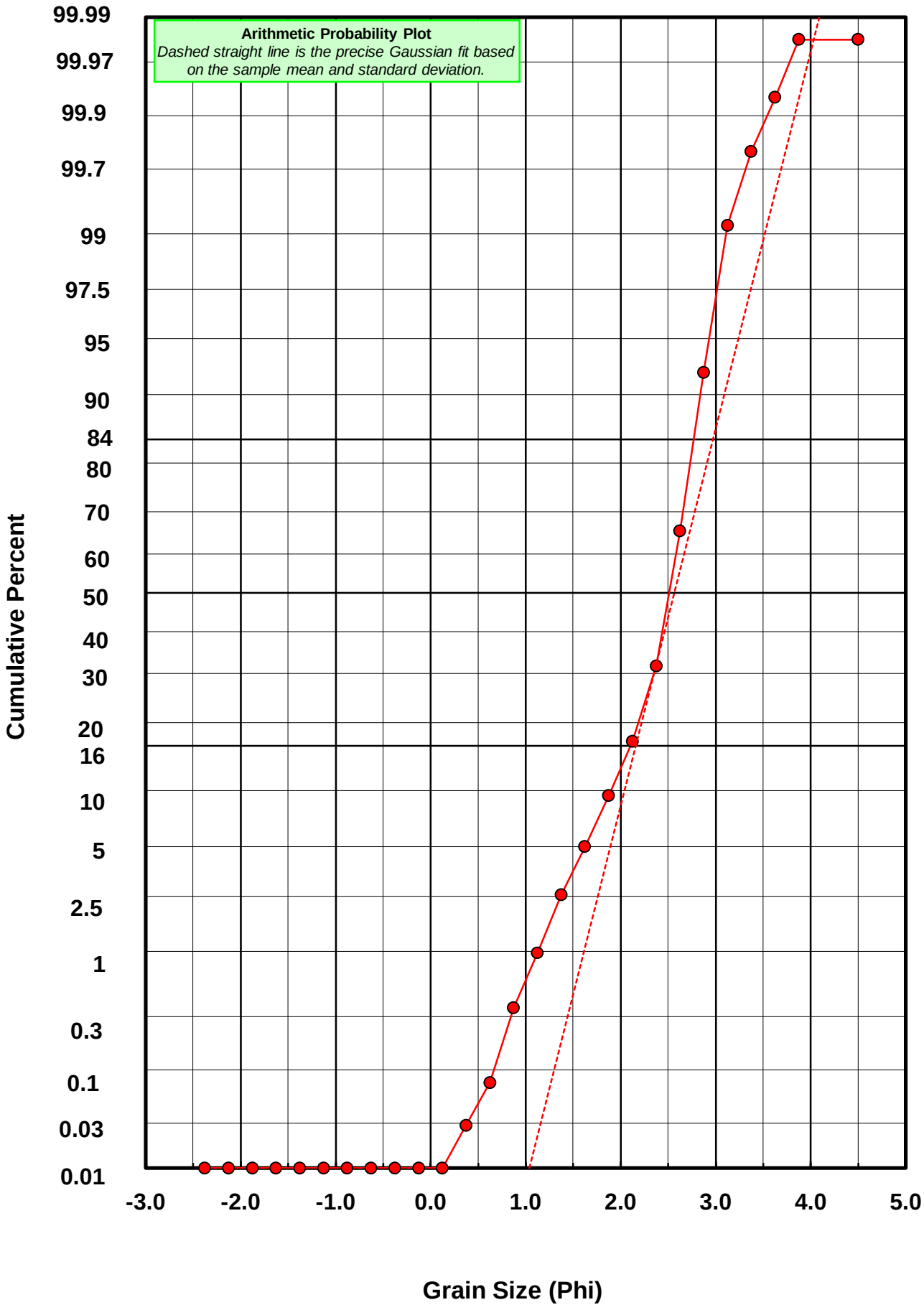
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Grain Size (Phi)